

**Marsh Inventory No.:** 357 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 1990

**Area Planted** (1acre = 0.4047 ha): 0.003 hectares

**COE Permit No.:** **Date of COE Permit:** 1990

**Originator or Applicant for permit:** Lakeside Palms Development

**Location of the marsh.**

**State:** FL **County:** Palm Beach **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Lake Worth

**Directions to the site:** I 95 to 6 th Ave South. East to South Palm Way or to lakeside. Go South. Lakeside Palms is on the east 8-10 blocks away.

**Source of planting information:** Caroline Hanes, Florida Dept. of Environmental Regulation, SE District Office, 1900 S. Congress Ave., Suite A, West Palm Beach, FL 33406, (407) 433-2650.

**Source of subsequent assessment information:** Caroline Hanes, Florida Dept. of Environmental Regulation, SE District Office, 1900 S. Congress Ave., Suite A, West Palm Beach, FL 33406, (407) 433-2650.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *Spartina* well setablished on 5/92. Status reports availabel. Mitigation is considered successful as of 5/92. File # 501750906. 2 Sites, 150 sq. ft. and 225 sq. ft. planted.

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**Marsh Inventory No.:** 356 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 1991

**Area Planted** (1acre = 0.4047 ha): 0.004 hectares

**COE Permit No.:** **Date of COE Permit:** 1989

**Originator or Applicant for permit:** Russell Wilson

**Location of the marsh.**

**State:** FL **County:** Palm Beach **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Loxatchee River Cove

**Directions to the site:** South of Jupiter inlet, east of Loxatchee River. Take I 95 to Indian Town Road. Go East to A1A, north to Saturn St., east on Saturn to end of the road. Located Between some townhouses and a house at the north end of Saturn St.

**Source of planting information:** Caroline Hanes, Florida Dept. of Environmental Regulation, SE District Office, 1900 S. Congress Ave., Suite A, West Palm Beach, FL 33406, (407) 433-2650.

**Source of subsequent assessment information:** Caroline Hanes, Florida Dept. of Environmental Regulation, SE District Office, 1900 S. Congress Ave., Suite A, West Palm Beach, FL 33406, (407) 433-2650.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:** 75%

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** no

**General comments about the marsh:**

- As of 10/91 *Spartina* had grown to 4'. No status reports have been submitted, but the site has been monitored. File # 501426206. 400 sq. ft. planted.

**Marsh Inventory No.: 379 Information Rank (1-5): 3 State: FL**

**Date Planted: 1987**

**Area Planted (1acre = 0.4047 ha): 0.004? hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit:**

**Location of the marsh.**

**State: FL County: Pinellas Latitude (N): 27 42' 00" Longitude (W): 82 39' 00"**

**Bay and sub-bays: Tampa Bay; Main Channel**

**Directions to the site: South of Pinellas Point Drive, between Maxima Point and Point Pinellas.**

**Source of planting information: Dr. Robin Lewis, III., Lewis Environmental Services, Inc., P.O. Box 20005, Tampa, FL 33622-0005, (813) 889-9684**

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Marsh name: Pinellas Point.

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**Marsh Inventory No.: 377 Information Rank (1-5): 3 State: FL**

**Date Planted: 1986**

**Area Planted (1acre = 0.4047 ha): hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit:**

**Location of the marsh.**

**State: FL County: Pinellas Latitude (N): 27 57' 30" Longitude (W): 82 42' 40"**

**Bay and sub-bays: Tampa Bay; Old Tampa Bay**

**Directions to the site: Bayview, south of the Courtney Campbell Parkway**

**Source of planting information:**

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Marsh name: Bayview.

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**Marsh Inventory No.: 259 Information Rank (1-5): 4 State: FL**

**Date Planted: 1984**

**Area Planted (1acre = 0.4047 ha): 2.500 hectares**

**COE Permit No.: 83T-0476 Date of COE Permit: 1983**

**Originator or Applicant for permit: Feather Sound**

**Location of the marsh.**

**State: FL County: Pinellas Latitude (N): 27 54' 15" Longitude (W): 82 39' 35"**

**Bay and sub-bays: Tampa Bay; Old Tampa Bay**

**Directions to the site: Feather Sound Site B; On the west side of Big Island; St. Petersburg**

**Source of planting information: Dr. Robin Lewis, III., Lewis Environmental Services, Inc., P.O. Box 20005, Tampa, FL 33622-0005, (813) 889-9684**

**Source of subsequent assessment information: (Crewz & Lewis, 1991)**

**References or reports: (Crewz & Lewis, 1991)**

**Other species planted in addition to *Spartina alterniflora* : none**

**Percent vegetative cover attained by the planted marsh: 11%, 1986**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when? no**

**General comments about the marsh:**

- *Spartina alterniflora* was growing at the higher elevation; drainage creek blocked flushing, drowning the lower *S. alterniflora* was replanted after the Crewz & Lewis survey. Mixed failure.

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**Marsh Inventory No.:** 249 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 1984

**Area Planted** (1acre = 0.4047 ha): 0.400 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:**

**Location of the marsh.**

**State:** FL **County:** Pinellas **Latitude (N):** 27 54' 20" **Longitude (W):** 82 39' 45"

**Bay and sub-bays:** Tampa Bay; Old Tampa Bay

**Directions to the site:** Feather Cove;

**Source of planting information:** Dr. Robin Lewis, III., Lewis Environmental Services, Inc., P.O. Box 20005, Tampa, FL 33622-0005, (813) 889-9684

**Source of subsequent assessment information:** Robin Lewis, (813) 889-9684

**References or reports:** (Crewz & Lewis, 1991)

**Other species planted in addition to *Spartina alterniflora* :** *Rhizophora mangle*

**Percent vegetative cover attained by the planted marsh:** 13% - cordgrass, 2% - mangroves; 1986

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** no

**General comments about the marsh:**

- Too much freshwater and nutrients in the area allowed souther cat-tail to become established and to crowd out the cordgrass and stunt the red mangroves. Failure.



**Marsh Inventory No.:** 258 **Information Rank (1-5):** 5 **State:** FL

**Date Planted:** 1983

**Area Planted** (1acre = 0.4047 ha): 0.6-Lewis; 0.53-Roberts hectares

**COE Permit No.:** 83T-0476 **Date of COE Permit:** 1983

**Originator or Applicant for permit:** Feather Sound

**Location of the marsh.**

**State:** FL **County:** Pinellas **Latitude (N):** 27 54' 15" **Longitude (W):** 82 39' 35"

**Bay and sub-bays:** Tampa Bay; Old Tampa Bay;

**Directions to the site:** Feather Sound Site A; On the west side of Big Island; St. Petersburg

**Source of planting information:** Dr. Robin Lewis, III., Lewis Environmental Services, Inc., P.O. Box 20005, Tampa, FL 33622-0005, (813) 889-9684

**Source of subsequent assessment information:** Robin Lewis, (813) 889-9684 ; (Roberts, 1991)

**References or reports:** Crewz and Lewis, 1991; (Roberts, 1991)

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:** 87% (Crews & Lewis); 55% (Roberts); 1986.

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Yes, by Roberts. Birds, mammals, and epibenthic snails.

**General comments about the marsh:**

- Few birds; many rats; raccoon tracks. Crewz and Lewis found the marsh and mangroves to be growing well enough to consider this planting a success. Marsh may convert to black mangrove forest later.

**Marsh Inventory No.: 265 Information Rank (1-5): 4 State: FL**

**Date Planted: 1983**

**Area Planted (1acre = 0.4047 ha): 0.040 hectares**

**COE Permit No.: 82C-1099 Date of COE Permit: 1982**

**Originator or Applicant for permit: Las Fontanas**

**Location of the marsh.**

**State: FL County: Pinellas Latitude (N): 27 54' 50" Longitude (W): 82 42' 00"**

**Bay and sub-bays: Tampa Bay; Old Tampa Bay; Cross Bayou Canal.**

**Directions to the site: East of 686 where the road turns south at High Point**

**Source of planting information: Dr. Robin Lewis, III., Lewis Environmental Services, Inc., P.O. Box 20005, Tampa, FL 33622-0005, (813) 889-9684**

**Source of subsequent assessment information: (Crewz & Lewis, 1991)**

**References or reports: (Crewz & Lewis, 1991)**

**Other species planted in addition to *Spartina alterniflora* : none**

**Percent vegetative cover attained by the planted marsh: 91%, 1986**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when? no**

**General comments about the marsh:**

- *Spartina alterniflora* was growing where Brazilian pepper had been removed; some colonization by red mangrove had started. Successful.

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**Marsh Inventory No.:** 260 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 1984

**Area Planted** (1acre = 0.4047 ha): 0.202 hectares

**COE Permit No.:** 82D-0339 **Date of COE Permit:** 1984

**Originator or Applicant for permit:** FM 92 Radio Tower

**Location of the marsh.**

**State:** FL **County:** Pinellas **Latitude (N):** 28 00' 54" **Longitude (W):** 82 41' 04"

**Bay and sub-bays:** Tampa Bay; Old Tampa Bay; Safety Harbor

**Directions to the site:** Radio tower site east of 590, north of Phillipe Point.

**Source of planting information:** Dr. Robin Lewis, III., Lewis Environmental Services, Inc., P.O. Box 20005, Tampa, FL 33622-0005, (813) 889-9684

**Source of subsequent assessment information:** Robin Lewis, (813) 889-9684

**References or reports:** (Crewz & Lewis, 1991)

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:** 34%, 1986

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** no

**General comments about the marsh:**

- *Spartina alterniflora* was growing at lower and higher elevation areas; black mangrove was starting to colonize the higher area. Mixed success.

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**Marsh Inventory No.:** 378 **Information Rank (1-5):** 5 **State:** FL

**Date Planted:** 1992

**Area Planted** (1acre = 0.4047 ha): 4.047 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** SWIM and City of St. Petersburg

**Location of the marsh.**

**State:** FL **County:** Pinellas **Latitude (N):** 27 49' 10" **Longitude (W):** 82 37' 07"

**Bay and sub-bays:** Tampa Bay; Placido Bayou

**Directions to the site:** W of Riveria Bay, N of the Mangrove Bay golf course, S of Gandy Blvd., and adjacent and S of the E end of 78th Ave NE

**Source of planting information:** Dr. Brandt Henningsen, SW Florida Water Management District, Surface Water Improvement and Management Program, 7601 Highway 301 N, Tampa, FL 33637, (813) 985-7481 ext. 2202

**Source of subsequent assessment information:** Dr. Brandt Henningsen, SWIM, (813) 985-7481 ext. 2202

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Yes. Fish, invertebrates and birds.

**General comments about the marsh:**

- This was a successful restoration and creation project. Many fisheries organisms have been caught in monitoring sampling. Bird sitings confirm bird utilization of the marsh.
- Marsh name: Mangrove Bay.

**Marsh Inventory No.:** 619 **Information Rank (1-5):** 5 **State:** FL

**Date Planted:** 1986

**Area Planted** (1acre = 0.4047 ha): 0.610 hectares

**COE Permit No.:**    **Date of COE Permit:**

**Originator or Applicant for permit:** Thunder Bay

**Location of the marsh.**

**State:** FL **County:** Pinellas ? **Latitude (N):**    **Longitude (W):**

**Bay and sub-bays:** Tampa Bay; Thunder Bay

**Directions to the site:** Thunder Bay; St. Petersburg

**Source of planting information:** Dr. Tom Roberts, Tennessee Tech University,  
Cookeville, TN 38505

**Source of subsequent assessment information:** (Roberts, 1991)

**References or reports:** (Roberts, 1991)

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:** 52%, 1987

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Yes. Fisheries species, birds, mammals, and epibenthic snails.

**General comments about the marsh:**

- Marsh was successful. Few birds; a rat; many killifish.
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**Marsh Inventory No.:** 760 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 01/01/83

**Area Planted** (1acre = 0.4047 ha): 0.631 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Randall Gentry (904) 824-0888 is the contact person.

**Location of the marsh.**

**State:** FL **County:** St. Johns **Latitude (N):** 29 54' 00?" **Longitude (W):** 81 18' 30?"

**Bay and sub-bays:** St. Augustine Inlet

**Directions to the site:** St. Augustine; N side of St. Augustine Inlet; cove and fringing marsh.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc. Port Orange, FL (904) 767-6232. *S. alterniflora* clumps were planted 2'on center (=o.c.)

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Distichlis spicata* and *Juncus roemerianus* were planted on 2-ft centers.

**Percent vegetative cover attained by the planted marsh:** 100% cover by *Spartina* and high marsh. as of may-93

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- Used a coquina rock revetment which subsided after awhile, but not before the marsh became established. Revetment placed at MLW broke the waves that were causing severe shoreline erosion.

- Marsh name: Porpoise Point

**Marsh Inventory No.:** 758 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 02/01/88

**Area Planted** (1acre = 0.4047 ha): 0.560 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** David Lavine (407) 452-2580 is the contact person.

**Location of the marsh.**

**State:** FL **County:** Volusia **Latitude (N):** 29 11' 35" **Longitude (W):** 81 00' 00?"

**Bay and sub-bays:** Halifax River

**Directions to the site:** Daytona Beach; Palmetto Ave N of Hwy 400; border of Daytona Beach and South Daytona; perimeter marsh along canal.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc. Port Orange, FL (904) 767-6232. *S. alterniflora* clumps were planted 2'on center (=o.c.)

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Distichlis spicata*. *Sporobolus virginicus*, *Sesuvium portulacastrum*, *Avicennia germinans*.

**Percent vegetative cover attained by the planted marsh:** 100% cover by *Spartina* and high marsh species, as of Oct-93.

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- Mangroves died during subsequent freezes, but black mangrove seedlings are now re-establishing in the *Spartina*.
- Marsh name: Post Cove



**Marsh Inventory No.:** 759 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 04/01/88

**Area Planted** (1acre = 0.4047 ha): 8.721 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Steve Tonjes (904) 736-5445 is the contact person.

**Location of the marsh.**

**State:** FL **County:** Volusia **Latitude (N):** 29 00' 00" **Longitude (W):** 80 54' 00?"

**Bay and sub-bays:** Halifax River

**Directions to the site:** New Smyrna Beach; several sites in SE Volusia county; 7 sites mostly spoil islands that had been denuded by frost damage to mangrove forests.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc. Port Orange, FL (904) 767-6232. *S. alterniflora* clumps were planted 3'on center (=o.c.)

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Sporobolus virginicus* was planted on 3-ft centers; *Avicennia germinans* seedlings were planted on 10-ft centers.

**Percent vegetative cover attained by the planted marsh:** 85-100% cover achieved by all planted areas, as of Feb-1992

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- Planting extended from April-Dec in 1988-90. Most of the mangroves died in freezes, but natural colonization has more than replaced them. Some *Spartina* areas are being displaced by mangroves volunteer seedlings.
- Marsh name: Lytle Ave. Bridge

**Marsh Inventory No.:** 777 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 06/01/78

**Area Planted** (1acre = 0.4047 ha): 0.061 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Mrs. Coleman (904) 252-7246 is the contact person.

**Location of the marsh.**

**State:** FL **County:** Volusia **Latitude (N):** 29 08' 30" **Longitude (W):** 80 58' 00"

**Bay and sub-bays:** Halifax River

**Directions to the site:** Daytona Beach; Peninsula Drive 4 miles S of State Rd. 400; fringing shoreline marsh.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc. Port Orange, FL (904) 767-6232. *S. alterniflora* clumps were planted 2' on center (=o.c.)

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Spartina patens* and *Paspalum vaginatum* were planted on 2-ft centers.

**Percent vegetative cover attained by the planted marsh:** 100% cover as of July-93

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- *Spartina* has filled in completely and has spread 25' to the west. The marsh has protected the land from erosion.

- Marsh name: Henry Coleman

**Marsh Inventory No.:** 784 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 03/01/91

**Area Planted** (1acre = 0.4047 ha): 0.287 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Jeanne Tolley (904) 258-3117 is the contact person.

**Location of the marsh.**

**State:** FL **County:** Volusia **Latitude (N):** 29 13' 00?" **Longitude (W):** 81 01' 20"

**Bay and sub-bays:** Halifax River

**Directions to the site:** Daytona Beach; South Beach Street half mile S of U.S. Hwy 92; fringing intertidal shoreline along outer perimeter of boat harbor.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc. Port Orange, FL (904) 767-6232. *S. alterniflora* clumps were planted 2'on centers.

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Sporobolus virginicus* was planted on 2-ft centers; *Spartina bakeri*.

**Percent vegetative cover attained by the planted marsh:** 50-75% as of Oct-93

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- The high marsh and *Spartina alterniflora* are growing, but coverage is only 50-75%. There is no breakwater and the substrate is rocky which make complete coverage by the marsh difficult. Some replanting of *S. alterniflora* was needed.

- *S. alterniflora* clumps were planted 2'on centers. Marsh name: Halifax Harbor

**Marsh Inventory No.: 621 Information Rank (1-5): 5 State: FL**

**Date Planted: 1985**

**Area Planted (1acre = 0.4047 ha): 0.280 hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit:**

**Location of the marsh.**

**State: FL County: Volusia Latitude (N): 29 08' 45" ? Longitude (W): 80 58' 55" ?**

**Bay and sub-bays: Halifax River**

**Directions to the site: Bouchelle Island; Port Orange**

**Source of planting information: Dr. Tom Roberts, Tennessee Tech University, Cookeville, TN 38505**

**Source of subsequent assessment information: (Roberts, 1991)**

**References or reports: (Roberts, 1991)**

**Other species planted in addition to *Spartina alterniflora* : none**

**Percent vegetative cover attained by the planted marsh: 74%, 1987**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when? Yes. Fisheries species, birds, mammals, and epibenthic snails.**

**General comments about the marsh:**

- Marsh was successful. No birds; a few rats; several typically estuarine fish .
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**Marsh Inventory No.:** 769 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 11/01/86

**Area Planted** (1acre = 0.4047 ha): 0.251 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Paul Kosmas (904) 427-6892 is the contact person.

**Location of the marsh.**

**State:** FL **County:** Volusia **Latitude (N):** 29 01' 00" **Longitude (W):** 80 54' 00"

**Bay and sub-bays:** ICW (Indian River North)

**Directions to the site:** New Smyrna Beach; State Rd. 44 (North Causeway); fringing marsh along ICW (Indian River North) and high marsh in protected cove.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Sporobolus virginicus* and *Distichlis spicata* were planted on 2-ft centers.

**Percent vegetative cover attained by the planted marsh:** 95-100% cover by *Spartina* and high marsh, as of April-93

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- *Spartina alterniflora* clumps were planted on 2-ft centers. Dense saltmarsh established to replace freeze killed mangroves.

- Marsh name: Marina Bay.



**Marsh Inventory No.:** 768 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 03/01/83

**Area Planted** (1acre = 0.4047 ha): 0.328 hectares

**COE Permit No.:**    **Date of COE Permit:**

**Originator or Applicant for permit:** Alice Williamson (904) 756-0171 is the contact person.

**Location of the marsh.**

**State:** FL **County:** Volusia **Latitude (N):** 29 12' 00?" **Longitude (W):** 81 00' 00"

**Bay and sub-bays:** Indian River North

**Directions to the site:** Daytona Beach Shores; S. Peninsula Dr., 4 miles N of Dunlawton Ave.; created intertidal shoreline behind coquina rock revetment.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Sporobolus virginicus* was planted on 1-ft centers.

**Percent vegetative cover attained by the planted marsh:** 100% by each species

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- *Spartina alterniflora* clumps were planted on 1-ft centers. The revetment has allowed the plants from the planted area to expand down to the MLW line.
- Marsh name: C.B. Williamson

**Marsh Inventory No.:** 770 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 07/01/89

**Area Planted** (1acre = 0.4047 ha): 0.109 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** David Hopple (904) 253-5204 is the contact person.

**Location of the marsh.**

**State:** FL **County:** Volusia **Latitude (N):** 29 01' 40" **Longitude (W):** 80 55' 00?"

**Bay and sub-bays:** Indian River North

**Directions to the site:** New Smyrna Beach; N end of Atlantic Ave (A-1-A), narrow planting area between two coquina rock revetments.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Sporobolus virginicus* was planted on 1.5-ft centers.

**Percent vegetative cover attained by the planted marsh:** 90-100% as of Sept-93

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- *Spartina alterniflora* clumps were planted on 1.5-ft centers. Shoreline stabilization project and native grass stormwater retention area.
- Marsh name: Spy Glass

**Marsh Inventory No.:** 781 **Information Rank (1-5):** 4 **State:** FL

**Date Planted:** 12/01/85

**Area Planted** (1acre = 0.4047 ha): 1.599 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Harriet hickox (904) 427-1239 is the contact person.

**Location of the marsh.**

**State:** FL **County:** Volusia **Latitude (N):** 29 04' 00?" **Longitude (W):** 80 58' 00?"

**Bay and sub-bays:** Indian River; Callalosa Creek

**Directions to the site:** New Smyrna Beach; State Rd. 44 between Indian River North and Callalosa Creek; fringing marsh completely surrounding N, E, and S sides of dredged material deposition island.

**Source of planting information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**Source of subsequent assessment information:** Mr. Steve Beeman, Ecoshores, Inc., Shoreline Associates, 3881 South Nova Road, Port Orange, FL 32127, (904) 767-6232.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : *Distichlis spicata*, *Spartina patens*, *Paspalum vaginatum*, *Sporobolus virginicus*, *Batis maritima* and *Salicornia virginica* were planted on 2-ft centers; *Avicennia germinans*.

**Percent vegetative cover attained by the planted marsh:** 85-100% cover as of Nov-93.

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Not assessed.

**General comments about the marsh:**

- *Spartina alterniflora* clumps were planted on 2-ft centers. The construction of the sloping wood-slat breakwater has allowed the creation of a vegetated intertidal shoreline where severe wave erosion had existed.

- Marsh name: Bouchelle Island.

**Marsh Inventory No.:** 299 **Information Rank (1-5):** 3 **State:** ME

**Date Planted:** 1979

**Area Planted** (1acre = 0.4047 ha): 1.376 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Portland Water District

**Location of the marsh.**

**State:** ME **County:** Cumberland **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Atlantic Ocean; Fore River

**Directions to the site:** From stations 1+75 to station 22+45 north and south of Congress St., Portland, ME.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Marsh shape: irregular. Built by Environmental Concern, Inc.
- Marsh name: Fore River.

**Marsh Inventory No.:** 292 **Information Rank (1-5):** 3 **State:** ME

**Date Planted:** 05/01/78

**Area Planted** (1acre = 0.4047 ha): 1.619 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Portland Water District

**Location of the marsh.**

**State:** ME **County:** Cumberland **Latitude (N):** 43 40' 20?" **Longitude (W):** 70 15' 40?"

**Bay and sub-bays:** Casco Bay; Back Cove

**Directions to the site:** Between Vannah and George Sts., Portland, ME, on Back Cove.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: cove shoreline (linear). ME DEP Permit # 03-2153-05170. Bare spots noted in marsh at end of first growing season. Built by Environmental Concern, Inc.
- Marsh name: Back Cove



**Marsh Inventory No.:** 296 **Information Rank (1-5):** 3 **State:** ME

**Date Planted:** 1978

**Area Planted** (1acre = 0.4047 ha): 0.417 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Wells Sanitary District, P.O. Box 425, Wells ME 04090

**Location of the marsh.**

**State:** ME **County:** York **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Atlantic Ocean; Wells Harbor

**Directions to the site:** Contact the Wells Sanitary District (207) 646-5906 for specific directions.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: irregular. Built by Environmental Concern, Inc.

- Marsh name: Wells Sanitary District.

**Marsh Inventory No.:** 308 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 04/01/82

**Area Planted** (1acre = 0.4047 ha): 0.809 hectares

**COE Permit No.:** NABOP-FN-80-0085-2 **Date of COE Permit:**

**Originator or Applicant for permit:** Locke Insulators Inc.

**Location of the marsh.**

**State:** MD **County:** Baltimore City **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Chesapeake Bay; Patapsco River

**Directions to the site:** Between Potee and Hanover Sts., south of Reedbird Ave., Baltimore MD.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: rectangular. Built by Environmental Concern, Inc. .The site was destroyed by a suspected herbicide dumping.
- Marsh name: Locke Insulator

**Marsh Inventory No.:** 304 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 06/01/82

**Area Planted** (1acre = 0.4047 ha): 0.372 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** MD State Highway Administration

**Location of the marsh.**

**State:** MD **County:** Baltimore City **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Chesapeake Bay; Patapsco River

**Directions to the site:** Patapsco River at 6386 York Rd, Baltimore, MD.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : 5,363 *Scirpus americanus* were also planted on 1.5-ft centers.

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 1.5-ft centers. Marsh shape: rectangular. Built by Environmental Concern, Inc. Application # NABOP-F80-013202. Permit # BC 246-42-815.

- Marsh name: City Garage Baltimore.

**Marsh Inventory No.: 330 Information Rank (1-5): 3 State: MD**

**Date Planted: 05/01/87**

**Area Planted (1acre = 0.4047 ha): 3.035 hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit: MD State Highway Administration**

**Location of the marsh.**

**State: MD County: Baltimore City Latitude (N): 39 12' 50" Longitude (W): 76 32' 15"**

**Bay and sub-bays: Chesapeake Bay; Patapsco River**

**Directions to the site: Southwestern shoulder of the Francis Scott Key Bridge at Hawkins Point.**

**Source of planting information: Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620**

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: linear. Built by Environmental Concern, Inc. Federal Assistance Program # 1-95-4 (45) 31. MDSHA# BC-246-131-815.
- Marsh name: Hawkins Point.

**Marsh Inventory No.:** 329 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 09/01/88

**Area Planted** (1acre = 0.4047 ha): 0.971 hectares

**COE Permit No.:** NACOP-FW(Helfrich, G.W.)80-0244-2 **Date of COE Permit:**

**Originator or Applicant for permit:** George Helfrich, 1320 N. Monroe, Baltimore, MD 21217.

**Location of the marsh.**

**State:** MD **County:** Baltimore City **Latitude (N):** 39 15' 20" **Longitude (W):** 76 37' 40"

**Bay and sub-bays:** Chesapeake Bay; Patapsco River, Middle Branch

**Directions to the site:** Take the Baltimore-Washington Parkway east to the Waterview Ave. exit. Take Waterview Ave. east. The site is at the bottom slope of a landfill. Park at old landfill entrance and walk north, entrance is on the left.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: shoreline. Built by Environmental Concern, Inc. . Garbage has floated into the marsh, covering some of it (March, 1993).

- Marsh name: Tower Marina



**Marsh Inventory No.:** 316 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 04/01/87

**Area Planted** (1acre = 0.4047 ha): 3.035 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Baltimore RESCO

**Location of the marsh.**

**State:** MD **County:** Baltimore City **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Chesapeake Bay; Patapsco River; Middle Branch.

**Directions to the site:** Adjacent to I-95, E of Annapolis Rd, and W of Swann Park, Baltimore MD.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: 2 sites: oval. Built by Environmental Concern, Inc.
- Marsh name: Rust International.

**Marsh Inventory No.:** 283 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 05/01/87

**Area Planted** (1acre = 0.4047 ha): 0.809 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Baltimore District Army Corps of Engineers

**Location of the marsh.**

**State:** MD **County:** Dorchester **Latitude (N):** 38 30' 10" **Longitude (W):** 76 17' 07"

**Bay and sub-bays:** Chesapeake Bay; Little Choptank River; Slaughter Creek.

**Directions to the site:** Cove facing Travers Cove on the S side of Hooper Point on Taylors Island and at the mouth of Slaughter Creek.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:** Environmental Effects of Dredging Vol. D-88-6, Dec. 1988 WES, Vicksburg, MS.

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Marsh shape: semi-circle. Built by Environmental Concern, Inc. Contract # DACW 31-86-M-0339. This is a beneficial use of dredge spoil project.
- Marsh name: Slaughter Creek.

**Marsh Inventory No.:** 281 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 05/01/82

**Area Planted** (1acre = 0.4047 ha): 6.475 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Baltimore District Army Corps of Engineers.

**Location of the marsh.**

**State:** MD **County:** Dorchester **Latitude (N):** 38 20' 21" **Longitude (W):** 76 15' 30"

**Bay and sub-bays:** Chesapeake Bay; Tar Bay.

**Directions to the site:** In Tar Bay just 1 km off the NE tip of Barren Island.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:** (Earhart & Garbisch,1983)

**References or reports:** (Earhart & Garbisch,1983)

**Other species planted in addition to *Spartina alterniflora*.** : *Spartina patens*

**Percent vegetative cover attained by the planted marsh:** Estimated to be >50% as of 1983

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** no

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Marsh shape: irregular. Built by Environmental Concern, Inc. This was a beneficial use of dredged material project.

- Marsh name: Barren Island #1.

**Marsh Inventory No.:** 315 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 07/01/83

**Area Planted** (1acre = 0.4047 ha): 6.475 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Baltimore District Army Corps of Engineers.

**Location of the marsh.**

**State:** MD **County:** Dorchester **Latitude (N):** 38 20' 20" **Longitude (W):** 76 15' 31"

**Bay and sub-bays:** Chesapeake Bay; Tar Bay.

**Directions to the site:** Northeast side of Barren Island, facing Tar Bay.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Marsh shape: irregular. Built by Environmental Concern, Inc. Contract # DACW31-81-C-0073. This was a beneficial use of dredge spoil project.

- Marsh name: Barren Island #2.

**Marsh Inventory No.:** 317 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 1985

**Area Planted** (1acre = 0.4047 ha): 0.931 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** US Army COE, Baltimore District

**Location of the marsh.**

**State:** MD **County:** Northumberland **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Chesapeake Bay; Little Wicomico River

**Directions to the site:** Rt. 652 at Smith Point at the mouth of the Little Wicomico River.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: irregular. Built by Environmental Concern, Inc. COE Contract # DACW31-85-C-0015. This is a dredge spoil planting project.

- Marsh name: Little Wicomico Planting.



**Marsh Inventory No.:** 324 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 05/01/87

**Area Planted** (1acre = 0.4047 ha): 0.769 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Dutton and Garfield Inc., P.O. Box 746, Manchester, NH 03105.

**Location of the marsh.**

**State:** MD **County:** Queen Annes **Latitude (N):** 38 58' 25" **Longitude (W):** 76 15' 00"

**Bay and sub-bays:** Chesapeake Bay; Eastern Bay; Prospect Bay; Kent Narrows

**Directions to the site:** In the SE corner of Egg Harbor just W of Kent Narrows Rd. and N of US Hwy. 50.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : 0.8 acres of *Typha angustifolia* and 0.8 acres of *Scirpus americanus*.

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Marsh shape: irregular. Built by Environmental Concern, Inc.
- Marsh name: Eastern Shore Outlet Center.

**Marsh Inventory No.:** 322 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 06/01/86

**Area Planted** (1acre = 0.4047 ha): 0.607 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Ellwood Thompson

**Location of the marsh.**

**State:** MD **County:** Queen Annes **Latitude (N):** 38 57' 12" **Longitude (W):** 76 13' 45"

**Bay and sub-bays:** Chesapeake Bay; Eastern Bay; Prospect Bay; Marshy Creek

**Directions to the site:** Cove on S margin of Marshy Creek just 4 km WSW of Grasonville.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Marsh shape: half-moon. Built by Environmental Concern, Inc.
- Marsh name: Oyster Cove.

**Marsh Inventory No.:** 289 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 04/01/76

**Area Planted** (1acre = 0.4047 ha): 0.018 hectares

**COE Permit No.:** NABOP-F/4 (Corinthian Yacht Club) 73-30 **Date of COE Permit:**

**Originator or Applicant for permit:** Corinthian Yacht Club, Ridge, MD. 20680

**Location of the marsh.**

**State:** MD **County:** St. Mary's **Latitude (N):** 38 07' 05" **Longitude (W):** 76 23' 48"

**Bay and sub-bays:** Chesapeake Bay; Smith Creek; Jutland Creek; Deep Cove

**Directions to the site:** At the eastern corner of the mouth of Deep Cove as it enters Jutland Creek, about 1 km NE of Wynne, St. Mary's County, MD. Planted behind a bulkhead.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 1-ft centers. Marsh shape: rectangular. Built by Environmental Concern, Inc.
- Marsh name: Corinthian Yacht Club.

**Marsh Inventory No.: 327 Information Rank (1-5): 3 State: MD**

**Date Planted: 06/01/88**

**Area Planted (1acre = 0.4047 ha): 0.344 hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit: MD State Highway Administration.**

**Location of the marsh.**

**State: MD County: Talbot Latitude (N): 38 35' 45" Longitude (W): 76 01' 00?"**

**Bay and sub-bays: Chesapeake Bay; Choptank River, Bolingbroke Creek**

**Directions to the site: W shore of Bolingbroke Creek about 0.5 km N of where it opens into the Choptank River, at Highlys Beach.**

**Source of planting information: Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620**

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: shoreline. Built by Environmental Concern, Inc.

- Marsh name: Choptank River Bridge.

**Marsh Inventory No.:** 341 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 05/01/91

**Area Planted** (1acre = 0.4047 ha): 0.016 hectares

**COE Permit No.:** CENAB-OP-RS(BALDWIN,WH) 89-1221-4 **Date of COE Permit:**

**Originator or Applicant for permit:** William Baldwin

**Location of the marsh.**

**State:** MD **County:** Talbot **Latitude (N):** 38 51' 08" **Longitude (W):** 76 15' 55"

**Bay and sub-bays:** Chesapeake Bay; Harris Creek, Dogwood Harbor

**Directions to the site:** Between Dogwood Harbor Rd and South Absontown Rd, at Dogwood Harbor on Tilghman Island, MD.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: shoreline, rectangular. Built by Environmental Concern, Inc.
- Marsh name: Blue Haven.



**Marsh Inventory No.: 320 Information Rank (1-5): 3 State: MD**

**Date Planted: 04/01/86**

**Area Planted (1acre = 0.4047 ha): 0.607 hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit: Walter Johnston Seedling**

**Location of the marsh.**

**State: MD County: Talbot Latitude (N): 38 47' 02" Longitude (W): 76 10' 50"**

**Bay and sub-bays: Chesapeake Bay; Miles River**

**Directions to the site: On Marengo Farm Rd. at Hunting Creek.**

**Source of planting information: Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620**

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: irregular. Built by Environmental Concern, Inc. This was a MD State Tidelands violation and settlement approved by the Baltimore District COE.

- Marsh name: Johnston. MD State Wetlands License # 81-WL-0111(R). Notice of violation #'s 85WV051 and 85WV052. Waterfowl damage happened after planting.

**Marsh Inventory No.:** 325 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 05/01/73

**Area Planted** (1acre = 0.4047 ha): 0.809 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** US Army COE, Fort Belvoir, VA

**Location of the marsh.**

**State:** MD **County:** Talbot **Latitude (N):** 38 51' 20" **Longitude (W):** 76 15' 55"

**Bay and sub-bays:** Chesapeake Bay; San Domingo Creek

**Directions to the site:** 9 km NNW of St. Michaels, on the NW facing shore about 1.5 km SW of Tilghman Point,

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:** (Garbisch, Woller, & McCallum, 1975)

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: irregular. Built by Environmental Concern, Inc.
- Marsh name: Hambleton Island Breach. COE Contract # DACW72-73-C-0009.

**Marsh Inventory No.:** 282 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 05/01/73

**Area Planted** (1acre = 0.4047 ha): 0.809 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** US Army COE, Fort Belvoir, VA

**Location of the marsh.**

**State:** MD **County:** Talbot **Latitude (N):** 38 45' 15" **Longitude (W):** 76 13' 55"

**Bay and sub-bays:** Chesapeake Bay; San Domingo Creek

**Directions to the site:** 3.5 km S of St. Michaels in the mouth of San Domingo Creek at the breach in Hambleton Island.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:** (Garbisch, Woller, & McCallum, 1975)

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: irregular. Built by Environmental Concern, Inc.
- Marsh name: Hambleton Island Breach. COE Contract # DACW72-73-C-0009.

**Marsh Inventory No.:** 626 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 05/01/73

**Area Planted** (1acre = 0.4047 ha): 0.040 hectares

**COE Permit No.:**    **Date of COE Permit:**

**Originator or Applicant for permit:**

**Location of the marsh.**

**State:** MD **County:** Talbot **Latitude (N):** 38 41' 10" **Longitude (W):** 76 11' 40"

**Bay and sub-bays:** Chesapeake Bay; Tred Avon River

**Directions to the site:** Directly W across the Tred Avon River from Oxford, MD.; on Ferry Neck peninsula.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: shoreline. Built by Environmental Concern, Inc.

- Marsh name: Bachelor Point No.1.

**Marsh Inventory No.:** 343 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 05/01/87

**Area Planted** (1acre = 0.4047 ha): 0.040 hectares

**COE Permit No.:** NABOP-RS-(Bachelor's Point) 86-0741-1 **Date of COE Permit:**

**Originator or Applicant for permit:** Bachelor Point Harbor Marina

**Location of the marsh.**

**State:** MD **County:** Talbot **Latitude (N):** 38 40' 32" **Longitude (W):** 76 10' 35"

**Bay and sub-bays:** Chesapeake Bay; Tred Avon River

**Directions to the site:** Directly S from Oxford, MD., on the Tred Avon River shore at the Bachelor Point Harbor.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: shoreline. Built by Environmental Concern, Inc.
- Marsh name: Bachelor Point No.2.



**Marsh Inventory No.:** 318 **Information Rank (1-5):** 3 **State:** MD

**Date Planted:** 1985

**Area Planted** (1acre = 0.4047 ha): 2.926 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Merritt Commercial Saving and Loan Association.

**Location of the marsh.**

**State:** MD **County:** Worcester **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Assawoman Bay

**Directions to the site:** Between North and South Heron Drives, Ocean City, MD.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Marsh shape: oval. Built by Environmental Concern, Inc.

- Marsh name: Heron Harbor. MD Tidal Division Case # 82-WL-0255 (R). Some seeding failure occurred and peat potted plants were later installed.

**Marsh Inventory No.:** 303 **Information Rank (1-5):** 3 **State:** MA

**Date Planted:** 05/01/81

**Area Planted** (1acre = 0.4047 ha): 1.093 hectares

**COE Permit No.:** none **Date of COE Permit:**

**Originator or Applicant for permit:** Massachusetts Metropolitan District Commission

**Location of the marsh.**

**State:** MA **County:** Suffolk **Latitude (N):** 42 23' 35" **Longitude (W):** 70 59' 35"

**Bay and sub-bays:** Massachusetts Bay; Boston Harbor; President Roads; Winthrop Bay; Belle Isle Inlet.

**Directions to the site:** Belle Isle marsh reservation park, East Boston MA. Rt. 60 in Boston, just past Suffolk Downs Race track, left at traffic light. At next major intersection take left on Bennington St. Go about 1 mile. Site entrance on right across from the track.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: fringe on shoreline of a canal. Built by Environmental Concern, Inc. Initial planting problems occurred due to high salinity and rubble substrate.

- Marsh name: Belle Isle Marsh, MA.

**Marsh Inventory No.:** 305 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 1981

**Area Planted** (1acre = 0.4047 ha): 0.405 hectares

**COE Permit No.:** NAPOP-R-N80-17 **Date of COE Permit:**

**Originator or Applicant for permit:** Scarborough Corp., P.O. Box 387, Marlton, NJ 08053.

**Location of the marsh.**

**State:** NJ **County:** Atlantic **Latitude (N):** 39 25' 10" **Longitude (W):** 74 30' 00?"

**Bay and sub-bays:** Absecon Creek

**Directions to the site:** Just south (approx. 150') of Cortez Ave. and the intersection of Lisbon Ave., Absecon City, NJ.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :** *Spartina patens*

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. patens* was planted on 2-ft centers. Marsh shape: irregular. Built by Environmental Concern, Inc.

- Marsh name: Scarborough.

**Marsh Inventory No.:** 332 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 05/01/81

**Area Planted** (1acre = 0.4047 ha): 0.081 hectares

**COE Permit No.:** NAPOP-R-78-12226-3 **Date of COE Permit:** 1978

**Originator or Applicant for permit:** Harrah's Resorts.

**Location of the marsh.**

**State:** NJ **County:** Atlantic **Latitude (N):** 39 22?' **Longitude (W):** 74 25?'

**Bay and sub-bays:** Absecon Inlet

**Directions to the site:** The marina at Harrah's Resort, Atlantic City, NJ.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc.,  
P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: irregular. Built by  
Environmental Concern, Inc.

- Marsh name: Harrah's Marina.

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**Marsh Inventory No.:** 342 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 05/01/83

**Area Planted** (1acre = 0.4047 ha): 0.073 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Scarboro-DiSabatino Construction, Suite 25, Barclay Pavilion, Rt. 70, Cherry Hill, NJ.

**Location of the marsh.**

**State:** NJ **County:** Atlantic **Latitude (N):** 39 19' 02" **Longitude (W):** 74 36' 50"

**Bay and sub-bays:** Gt. Egg Harbor Inlet Ship Channel; Bass Harbor.

**Directions to the site:** In the Somers Point Yacht Harbor.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: oval. Built by Environmental Concern, Inc.

- Marsh name: Somers Point Yacht Harbor.



**Marsh Inventory No.:** 340 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 1991

**Area Planted** (1acre = 0.4047 ha): 0.040 hectares

**COE Permit No.:** CENAB-OP-R-80-03968-12 **Date of COE Permit:**

**Originator or Applicant for permit:** Shapiro Ripps, Trump Tower, 725 5 th Ave., NY, NY 10022.

**Location of the marsh.**

**State:** NJ **County:** Atlantic **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:**

**Directions to the site:** Lot 103, Block A-59, Holgate, NJ. At the end of Rosemma Ave., in Holgate, in back of the lot at the center of the Cul-de-sac.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: rectangular. Built by Environmental Concern, Inc. Marsh name: Shapiro Ripps. This was a restoration project required for illegal fill activity.

**Marsh Inventory No.:** 319 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 1986

**Area Planted** (1acre = 0.4047 ha): 30.353 hectares

**COE Permit No.:** 12746 **Date of COE Permit:**

**Originator or Applicant for permit:** Hartz Mountain Development

**Location of the marsh.**

**State:** NJ **County:** Bergen **Latitude (N):** 40 48' 03" **Longitude (W):** 74 33' 05"

**Bay and sub-bays:** Newark Bay; Hackensack River; Cromakill Creek.

**Directions to the site:** Secaucus, east side of the eastern spur of the NJ Toll Road.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Built by Environmental Concern, Inc. Vegetation establishment has been problematic in some areas.

- Marsh name: Hartz Mountain Industries Eastern Brackish Marsh. Don Smith, Hackensack Meadowland Development Commission (201) 460-1700 can give a tour of the site.

**Marsh Inventory No.:** 311 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 06/01/83

**Area Planted** (1acre = 0.4047 ha): 1.174 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** NJ Turnpike Authority

**Location of the marsh.**

**State:** NJ **County:** Bergen **Latitude (N):** 40 50' 05" **Longitude (W):** 74 33' 00"

**Bay and sub-bays:** Newark Bay; Hackensack River

**Directions to the site:** Immediately south of the Vince Lombardi service area at the junction of the eastern and western spurs of the NJ Turnpike, south of exit 18E.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Built by Environmental Concern, Inc. NJ Turnpike Authority Contract # 780. Originally, the planting failed due to deconsolidated sediments which would not support plant overwintering.

- Goose and Muskrat predation was also a problem. The site is now a mixture of mudflat, Eleocharis flat, and Cordgrass. Marsh shape-basin. Marsh name: NJ Turnpike Authority.

**Marsh Inventory No.:** 331 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 1989

**Area Planted** (1acre = 0.4047 ha): 0.405 hectares

**COE Permit No.:** 14622 **Date of COE Permit:**

**Originator or Applicant for permit:** Hackensack Meadowlands Development Commission.

**Location of the marsh.**

**State:** NJ **County:** Bergen **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Newark Bay; Mill Creek, Hackensack River

**Directions to the site:** At the end of Valley Brook Ave., Lyndhurst, NJ.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: shoreline. Built by Environmental Concern, Inc. Application # 87-0596-JI. Goose damage was a problem at this site.

- Don Smith, Hackensack Meadowland Development Commission (201) 460-1700 can give a tour of the site. Marsh name: Hackensack Meadowlands Development Commission 440 Shoreline.

**Marsh Inventory No.:** 684 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 1990

**Area Planted** (1acre = 0.4047 ha): 3.642 hectares

**COE Permit No.:**    **Date of COE Permit:**

**Originator or Applicant for permit:** Hackensack Meadowlands Development Commission.

**Location of the marsh.**

**State:** NJ **County:** Bergen **Latitude (N):** 40 48' 50" **Longitude (W):** 74 08' 03"

**Bay and sub-bays:** Newark Bay; Mill Creek, Hackensack River

**Directions to the site:** Lyndhurst, NJ, next to the NJ Turnpike and bordered by Berry's Creek on the N and a branch of Mary Ann's Creek to the S.

**Source of planting information:** Dr. Michael P. Bontje, B. Laing Associates, Environmental Science, 225 Main Street, Northport, NY 11768, (516) 261-7170

**Source of subsequent assessment information:** (Bontje, 1991)

**References or reports:** (Bontje, 1991)

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** no

**General comments about the marsh:**

- *S. alterniflora* was planted on 3-ft centers using 3-4 stem peat pot. Marsh borders two tidal creek channels. Built by Environmental Concern, Inc.
- Appeared to be growing, but was too early to tell. Bird population had already increased, so people were optimistic about the future success of the project.



**Marsh Inventory No.:** 306 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 04/01/81

**Area Planted** (1acre = 0.4047 ha): 1.619 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** US Army COE, New York District.

**Location of the marsh.**

**State:** NJ **County:** Essex **Latitude (N):** 40 38' 00?" **Longitude (W):** 74 15' 00?"

**Bay and sub-bays:** Newark Bay; Elizabeth River

**Directions to the site:** The Elizabeth River at the Joint Meeting sewage treatment plant, South First St., Elizabeth, NJ.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: rectangular. Built by Environmental Concern, Inc. COE Contract # DACW-78-C-0050
- Marsh name: Elizabeth Marsh.

**Marsh Inventory No.: 323 Information Rank (1-5): 3 State: NJ**

**Date Planted: 1985**

**Area Planted (1acre = 0.4047 ha): 30.353 hectares**

**COE Permit No.: 12746 Date of COE Permit:**

**Originator or Applicant for permit: Hartz Mountain Development**

**Location of the marsh.**

**State: NJ County: Hudson Latitude (N): 40 48' 03" Longitude (W): 74 33' 08"**

**Bay and sub-bays: Newark Bay; Hackensack River; Mill Creek.**

**Directions to the site: Secaucus, west side of the eastern spur of the NJ Toll Road.**

**Source of planting information: Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620**

**Source of subsequent assessment information: (Bontje, 1988)**

**References or reports: (Bontje, 1988)**

**Other species planted in addition to *Spartina alterniflora* : none**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when? Yes. Fish, birds and mammals were assessed (Bontje, 1988).**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seeds per sq. ft. Built by Environmental Concern, Inc. Fairly well established cordgrass population. Animal damage is prevalent in some areas.

- Marsh name: Hartz Mountain Western Brackish Marsh. Don Smith, Hackensack Meadowland Development Commission (201) 460-1700 can give a tour of the site.

**Marsh Inventory No.:** 344 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 05/01/89

**Area Planted** (1acre = 0.4047 ha): 0.243 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Dresdner, Robin and Associates

**Location of the marsh.**

**State:** NJ **County:** Hudson **Latitude (N):** 40 41' 50" **Longitude (W):** 74 03' 30"

**Bay and sub-bays:** Upper New York Bay; Hudson River.

**Directions to the site:** Along the south and east facing shoreline at the Water's Edge renovation area a few blocks N of the Morris Canal Basin, Jersey City.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: shoreline. Built by Environmental Concern, Inc.
- Marsh name: Newport.

**Marsh Inventory No.:** 301 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 04/01/78

**Area Planted** (1acre = 0.4047 ha): 0.890 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** William R. Cesare or James C. DeCesare

**Location of the marsh.**

**State:** NJ **County:** Ocean **Latitude (N):** 39 41' 16" **Longitude (W):** 74 09' 00"

**Bay and sub-bays:** Barnegat Bay (S of inlet )

**Directions to the site:** Point of land immediately east of Lagoon Drive West, Harvey Cedars NJ.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*.** :

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: irregular. Built by Environmental Concern, Inc. NJ Federal District Court Action # 77-1176.

- Marsh name: Long Beach NJ.

**Marsh Inventory No.:** 334 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 08/01/86

**Area Planted** (1acre = 0.4047 ha): 0.243 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** West Bay Point Inc.

**Location of the marsh.**

**State:** NJ **County:** Ocean **Latitude (N):** 39 51' 27" **Longitude (W):** 74 08' 05"

**Bay and sub-bays:** Barnegat Bay N of Barnegat Bay Inlet; Laurel Harbor

**Directions to the site:** Along the shoreline of Laurel Harbor Subdivision, Lacey Township, Ocean County, NJ.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: horseshoe. Built by Environmental Concern, Inc. NJ CAFRA Permit # 85-0716-5.
- Marsh name: Laurel Harbor.



**Marsh Inventory No.:** 337 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 05/01/89

**Area Planted** (1acre = 0.4047 ha): 0.130 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Michael Reed Construction Co.

**Location of the marsh.**

**State:** NJ **County:** Ocean **Latitude (N):** 39 44' 20" **Longitude (W):** 74 07' 05"

**Bay and sub-bays:** Barnegat Bay S of Barnegat Inlet

**Directions to the site:** Block T-166, Lots 6 and 7 on the bay shore just S of Holly Lagoons housing development, Long Beach Township, Ocean County, NJ.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :** none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: rectangular. Built by Environmental Concern, Inc. US District Court (NJ) Action # 87-552(GEB).
- Marsh name: Michael Reed.

**Marsh Inventory No.:** 295 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 05/01/78

**Area Planted** (1acre = 0.4047 ha): 0.405 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Ocean County Sewerage Authority

**Location of the marsh.**

**State:** NJ **County:** Ocean **Latitude (N):** 39 39' 16 **Longitude (W):** 74 11' 00"

**Bay and sub-bays:** Barnegat Bay; Manahawkin Bay

**Directions to the site:** Along sewer line on Bonnett Island and along access road at Ship Bottom shore, near where Rt. 72 crosses Manahawkin Bay to Ship Bottom, on Long Beach Island, NJ.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: linear. Built by Environmental Concern, Inc. EPA sewage treatment grant, project # C-34-371-01. Contract #'s SI-2,SI-3,SI-6.

- High salinity at sights required replanting in October of 1978. Marsh name: Ocean County Sewage Authority.

**Marsh Inventory No.:** 294 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 05/01/78

**Area Planted** (1acre = 0.4047 ha): 1.619 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Ocean County Sewerage Authority

**Location of the marsh.**

**State:** NJ **County:** Ocean **Latitude (N):** 39 39' 33" **Longitude (W):** 74 11' 45"

**Bay and sub-bays:** Barnegat Bay; Manahawkin Bay

**Directions to the site:** Along the footing of the NJ Rt. 72 causeway on Cedar Bonnett Island in Manahawkin Bay just W of Ship Bottom, NJ. Work was done on northern edge of Rt. 72.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: linear. Built by Environmental Concern, Inc. EPA sewage treatment grant, project # C-34-371-01. Contract #'s SI-2,SI-3,SI-6.

- High salinity at sights required replanting in October of 1978. Marsh name: Ocean County Sewage Authority.

**Marsh Inventory No.:** 293 **Information Rank (1-5):** 3 **State:** NJ

**Date Planted:** 05/01/78

**Area Planted** (1acre = 0.4047 ha): 0.809 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Ocean County Sewerage Authority

**Location of the marsh.**

**State:** NJ **County:** Ocean **Latitude (N):** 39 40' 10" **Longitude (W):** 74 12' 58"

**Bay and sub-bays:** Barnegat Bay; Manahawkin Bay

**Directions to the site:** Along the base of the causeway where Rt. 72 begins to cross Manahawkin Bay over to Ship Bottom, NJ. Work was done on northern edge of Rt. 72.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: linear. Built by Environmental Concern, Inc. EPA sewage treatment grant, project # C-34-371-01. Contract #'s SI-2,SI-3,SI-6.

- High salinity at sights required replanting in October of 1978. Marsh name: Ocean County Sewage Authority.

**Marsh Inventory No.:** 335 **Information Rank (1-5):** 3 **State:** NY

**Date Planted:** 1986

**Area Planted** (1acre = 0.4047 ha): 0.202 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** NY City DEP

**Location of the marsh.**

**State:** NY **County:** Richmond **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Great Kills Harbor

**Directions to the site:** South of Tennyson Drive, east of Robinson Ave., west of Glovar Ave., Staten Island, NY.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: oval. Built by Environmental Concern, Inc. New York City Environmental Conservation Order on Consent R2 0155-85-11.

- Marsh name: Staten Island, NY.



**Marsh Inventory No.:** 339 **Information Rank (1-5):** 3 **State:** NY

**Date Planted:** 06/01/89

**Area Planted** (1acre = 0.4047 ha): 0.073 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Northport Marina Associates

**Location of the marsh.**

**State:** NY **County:** Suffolk **Latitude (N):** 40 53' 30" **Longitude (W):** 73 21' 26"

**Bay and sub-bays:** Long Island Sound; Huntington Bay; Northport Bay; Northport Harbor.

**Directions to the site:** Shore immediately N of the Admirals Yacht Club and Marina and about 25 m S of the Scudder Park boat launch ramp.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- *S. alterniflora* was planted on 2-ft centers. Marsh shape: oval. Built by Environmental Concern, Inc. NY DEC # 10-86-0780.

- Marsh name: Northport Admirals Yacht Club and Marina.

**Marsh Inventory No.:** 627 **Information Rank (1-5):** 4 **State:** NC

**Date Planted:** 1973

**Area Planted** (1acre = 0.4047 ha): hectares

**COE Permit No.:** none **Date of COE Permit:**

**Originator or Applicant for permit:** C.S. Benner, research

**Location of the marsh.**

**State:** NC **County:** **Latitude (N):** 36 10' 45" **Longitude (W):** 75 45' 30"

**Bay and sub-bays:** Albermarle Sound; Currituck Sound

**Directions to the site:** On the Currituck Sound shore of the barrier island, at the COE CERC Field Research Facility, Duck, NC.

**Source of planting information:** (C.S. Benner et al, 1982)

**Source of subsequent assessment information:** (Benner et al, 1982)

**References or reports:** (Benner et al, 1982)

**Other species planted in addition to *Spartina alterniflora* :** *Spartina patens*, *Spartina cynosuroides*, *Juncus roemerianus*, *Fimbristylis spadicea*, *Phragmites australis*, *A. breviligulata*, *Panicum amarulum*, and *Typha latifolia*.

**Percent vegetative cover attained by the planted marsh:** >70%

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** no

**General comments about the marsh:**

- Several profile surveys have been made of the planted area, one in 1978, 1979, 1980 and 1981. The vegetation continued to expand each year, but the unvegetated control area remained bare during this same period.

**Marsh Inventory No.:** 307 **Information Rank (1-5):** 3 **State:** SC

**Date Planted:** 1981

**Area Planted** (1acre = 0.4047 ha): 3.238 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** City of North Charleston

**Location of the marsh.**

**State:** SC **County:** Dorchester **Latitude (N):** **Longitude (W):**

**Bay and sub-bays:** Cooper River

**Directions to the site:** Basin #1, east of Spruill Ave. and north of Token St. Basin #2, east of Chicora Ave., and north of Quitman St. and Baxter St., west of Spruill Ave. Basin #3, west of Chicora Ave., south of Orvid St., North Charleston, SC.

**Source of planting information:** Dr. Edgar Garbisch, Environmental Concern, Inc., P.O.Box P, St. Michaels, MD 21663, (410) 745-9620

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planting density of *S. alterniflora* was 10 pure live seed per sq. ft. Marsh shape: 3 oval basins. Built by Environmental Concern, Inc. This was HUD project Chicora Retention Basin, Project # B-80-MC-45-0005-28.
- Marsh name: City of North Charleston, SC.

**Marsh Inventory No.: 664 Information Rank (1-5): 3 State: TX**

**Date Planted: 1984**

**Area Planted (1acre = 0.4047 ha): 0.121 hectares**

**COE Permit No.: 15105/1 Date of COE Permit: 1983**

**Originator or Applicant for permit: Dorchester Exploration, Inc.**

**Location of the marsh.**

**State: TX County: Aransas Latitude (N): 27 56' 00" Longitude (W): 97 02' 32"**

**Bay and sub-bays: Aransas Bay**

**Directions to the site: ST. 260, about 6 mi S. of Rockport; on the SW corner of Mud Island.**

**Source of planting information: Mr. Gary Galbraith, Espey, Huston & Ass, Inc., (512) 327-6840**

**Source of subsequent assessment information: Gary Galbraith**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh: 50%**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Planted by Espey Huston. Evaluated in 1987, lots of erosion, wave energy too high. Western 400' of 871' X 50' planted has failed.

-

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**Marsh Inventory No.: 179 Information Rank (1-5): 3 State: TX**

**Date Planted:**

**Area Planted (1acre = 0.4047 ha): 0.040 hectares**

**COE Permit No.: 18172 Date of COE Permit: 11/03/87**

**Originator or Applicant for permit: City of Rockport**

**Location of the marsh.**

**State: TX County: Aransas Latitude (N): 28 01' 56" Longitude (W): 97 02' 55"**

**Bay and sub-bays: Aransas Bay**

**Directions to the site: Along the W shore of Little Bay at Rockport, TX**

**Source of planting information: Mr. Andreas Mager, Jr., NMFS SE Region Headquarters, Habitat Conservation Division, 9721 Executive Center Drive, St. Petersburg, FL 33702; (813) 893-3503.**

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

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**Marsh Inventory No.:** 686 **Information Rank (1-5):** 4 **State:** TX

**Date Planted:** 1988

**Area Planted** (1acre = 0.4047 ha): 0.040 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Kontiki Condos

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 28 06' 05" **Longitude (W):** 97 01' 47"

**Bay and sub-bays:** Aransas Bay

**Directions to the site:** In a bayou just SW of Live Oak Pt, on Aransas Bay 0.5 mi S of the base of the causeway.

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:** >70%, 1992

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Very successful (>70% cover).

-

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**Marsh Inventory No.:** 239 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:** 1983

**Area Planted** (1acre = 0.4047 ha): 0.101 hectares

**COE Permit No.:** 13679 **Date of COE Permit:**

**Originator or Applicant for permit:** Bishop Ship-building Corp.

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 27 54' 47" **Longitude (W):** 97 07' 50"

**Bay and sub-bays:** Aransas Bay; Redfish Bay

**Directions to the site:** N end of the harbor along the NE side; in Aransas Pass

**Source of planting information:** Mr. Andreas Mager, Jr., NMFS SE Region Headquarters, Habitat Conservation Division, 9721 Executive Center Drive, St. Petersburg, FL 33702; (813) 893-3503.

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

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**Marsh Inventory No.: 177 Information Rank (1-5): 3 State: TX**

**Date Planted:**

**Area Planted (1acre = 0.4047 ha): 0.405 hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit: COE ?**

**Location of the marsh.**

**State: TX County: Aransas Latitude (N): 27 52' 10" Longitude (W): 97 05' 55"**

**Bay and sub-bays: Aransas Bay; Redfish Bay**

**Directions to the site: Stedman Island, SW side.**

**Source of planting information:**

**Source of subsequent assessment information: Dr. Thomas Minello, National Marine Fisheries Service, 4700 Ave. U, Galveston, TX 77551, (409) 766-3506**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh: >70%, 1992**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when? Yes. Aquatic organisms.**

**General comments about the marsh:**

- The marsh is well established. It was sampled for fish, shellfish, and benthic invertebrates, as well as macro-organic matter

**Marsh Inventory No.:** 236 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:**

**Area Planted** (1acre = 0.4047 ha): 0.061 hectares

**COE Permit No.:** 11405 **Date of COE Permit:**

**Originator or Applicant for permit:** Mitchell Energy Exp.

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 28 10' 45" **Longitude (W):** 96 57' 45"

**Bay and sub-bays:** Aransas Bay; St. Charles Bay

**Directions to the site:** State tracts (ST.) 69 and 387, near Rockport

**Source of planting information:** Mr. Andreas Mager, Jr., NMFS SE Region Headquarters, Habitat Conservation Division, 9721 Executive Center Drive, St. Petersburg, FL 33702; (813) 893-3503.

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

-  
-

**Marsh Inventory No.:** 685 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:** 1988

**Area Planted** (1acre = 0.4047 ha): 0.101 hectares

**COE Permit No.:**    **Date of COE Permit:**

**Originator or Applicant for permit:** Northpoint Marina

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 28 03' 00" **Longitude (W):** 97 13' 45"

**Bay and sub-bays:** Copano Bay

**Directions to the site:** In Port Bay on N side on small peninsula between Italian Bend and Rattlesnake Point.

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Partial Success (>10% cover).
-



**Marsh Inventory No.:** 690 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:** 1992

**Area Planted** (1acre = 0.4047 ha): 0.004 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** SCS - Bayside, TX

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 28 05' 45" **Longitude (W):** 97 12' 20"

**Bay and sub-bays:** Copano Bay

**Directions to the site:** Along the NW shore of Copano Bay at Bayside

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Partial Success (>10% cover). 600 sq. ft.
-

**Marsh Inventory No.: 689 Information Rank (1-5): 4 State: TX**

**Date Planted: 1992**

**Area Planted (1acre = 0.4047 ha): 0.121 hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit: SCS - Bayside, TX**

**Location of the marsh.**

**State: TX County: Aransas Latitude (N): 28 05' 30" Longitude (W): 97 12' 30"**

**Bay and sub-bays: Copano Bay**

**Directions to the site: Along the NW shore of Copano Bay at Bayside**

**Source of planting information: Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948**

**Source of subsequent assessment information: Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh: >70%, 1992**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Very successful.

-

**Marsh Inventory No.:** 688 **Information Rank (1-5):** 4 **State:** TX

**Date Planted:** 1992

**Area Planted** (1acre = 0.4047 ha): 0.121 hectares

**COE Permit No.:**    **Date of COE Permit:**

**Originator or Applicant for permit:** SCS - Bayside, TX

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 28 05' 15" **Longitude (W):** 97 45"

**Bay and sub-bays:** Copano Bay

**Directions to the site:** Along the NW shore of Copano Bay at Bayside

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:** >70%, 1992

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Very successful.
-

**Marsh Inventory No.:** 687 **Information Rank (1-5):** 4 **State:** TX

**Date Planted:** 1992

**Area Planted** (1acre = 0.4047 ha): 0.008 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** SCS - Bayside, TX

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 28 05' 05" **Longitude (W):** 97 12' 55"

**Bay and sub-bays:** Copano Bay

**Directions to the site:** Along the NW shore of Copano Bay at Bayside

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:** >70%, 1992

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Very successful, 1,000 sq. ft.

**Marsh Inventory No.:** 248 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:** 1986

**Area Planted** (1acre = 0.4047 ha): 0.304 hectares

**COE Permit No.:** 17075 **Date of COE Permit:**

**Originator or Applicant for permit:** Wilmar Development Corp.

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 28 01' 45" **Longitude (W):** 97 07' 52"

**Bay and sub-bays:** Copano Bay; Port Bay

**Directions to the site:** Cape Valero Subdiv., about 5 mi W. of Rockport

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Very successful (>70% cover).
-



**Marsh Inventory No.: 692 Information Rank (1-5): 4 State: TX**

**Date Planted: 1992**

**Area Planted (1acre = 0.4047 ha): 0.364 hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit: Mitchell Energy Exp.**

**Location of the marsh.**

**State: TX County: Aransas Latitude (N): 28 10' 10" Longitude (W): 96 52' 20"**

**Bay and sub-bays: Mesquite Bay**

**Directions to the site: Mesquite Bay side of spoil banks, S of ANWR.**

**Source of planting information: Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948**

**Source of subsequent assessment information: Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*. :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Very successful (>70% cover).

-

**Marsh Inventory No.:** 691 **Information Rank (1-5):** 4 **State:** TX

**Date Planted:** 1992

**Area Planted** (1acre = 0.4047 ha): 3.035 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** Mitchell Energy Exp.

**Location of the marsh.**

**State:** TX **County:** Aransas **Latitude (N):** 28 09' 56" **Longitude (W):** 96 52' 18"

**Bay and sub-bays:** Mesquite Bay

**Directions to the site:** S. side of the Aransas National Wildlife Refuge.

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Very successful (>70% cover).
-

**Marsh Inventory No.:** 715 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:** 1992

**Area Planted** (1acre = 0.4047 ha): 0.809 hectares

**COE Permit No.:**    **Date of COE Permit:**

**Originator or Applicant for permit:** COE

**Location of the marsh.**

**State:** TX **County:** Brazoria **Latitude (N):** 29 10' 28" **Longitude (W):** 95 05' 33"

**Bay and sub-bays:** Galveston Bay; West Bay.

**Directions to the site:** Along the NW shore of West Bay infront of the SE corner of Halls Lake.

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:** <10

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Too steep a slope and short a planting area; too deep to put in a breakwater so the 4-5 mi fetch in the prevailing wind direction was too much. The planting washed out within a few months. Failure.

-

**Marsh Inventory No.:** 705 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:** 06/01/83

**Area Planted** (1acre = 0.4047 ha): 6.071 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** COE

**Location of the marsh.**

**State:** TX **County:** Brazoria **Latitude (N):** 29 10' 42" **Longitude (W):** 95 06' 55"

**Bay and sub-bays:** Galveston Bay; West Bay; Chocolate Bay.

**Directions to the site:** Along the SE shore of Chocolate Bay at Alligator Point.

**Source of planting information:** Dr. James W. Webb, Texas A&M Univ. at Galveston, P.O. Box 1675, Galveston, TX 77553, (409)740-4542

**Source of subsequent assessment information:** Dr. Thomas Minello, National Marine Fisheries Service, 4700 Ave. U, Galveston, TX 77551, (409) 766-3506

**References or reports:** (Espey, Huston & Assoc., Inc., 1988)

**Other species planted in addition to *Spartina alterniflora*** : none

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?** Yes. Fisheries and benthic organisms.

**General comments about the marsh:**

- Fairly well protected, only subject to N wind waves.
-

**Marsh Inventory No.:** 698 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:** 07/01/92

**Area Planted** (1acre = 0.4047 ha): 0.008 hectares

**COE Permit No.:**    **Date of COE Permit:**

**Originator or Applicant for permit:** Seadrift

**Location of the marsh.**

**State:** TX **County:** Calhoun **Latitude (N):** 28 24' 30" **Longitude (W):** 96 42' 30"

**Bay and sub-bays:** San Antonio Bay

**Directions to the site:** Along the N shore (facing S) just to the E of the boat docks and fish houses.

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

-  
-



**Marsh Inventory No.: 680 Information Rank (1-5): 3 State: TX**

**Date Planted: 1989**

**Area Planted (1acre = 0.4047 ha): 0.040 hectares**

**COE Permit No.: Date of COE Permit:**

**Originator or Applicant for permit: Harlingen St. Bank**

**Location of the marsh.**

**State: TX County: Cameron Latitude (N): 26 06' 48" Longitude (W): 97 10' 25"**

**Bay and sub-bays: Laguna Madre**

**Directions to the site: 3 mi N of new causeway on the lagoon side of Padre Island.**

**Source of planting information: Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948**

**Source of subsequent assessment information: Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh: 15**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Partial Success (>10% cover). 900 sq. ft.
-

**Marsh Inventory No.:** 681 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:** 1990

**Area Planted** (1acre = 0.4047 ha): 0.040 hectares

**COE Permit No.:** **Date of COE Permit:**

**Originator or Applicant for permit:** NCNB, Texas

**Location of the marsh.**

**State:** TX **County:** Cameron **Latitude (N):** 26 04' 40" **Longitude (W):** 97 10' 03"

**Bay and sub-bays:** Laguna Madre

**Directions to the site:** South of the old Queen Isabella Causeway.

**Source of planting information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**Source of subsequent assessment information:** Mr. Charles E. Belaire, Belaire Consulting, Inc., P.O. Box 741, Rockport, TX 78382, (512) 729-2948

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:** 15

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- Partial Success (>10% cover). 2,000 sq. ft.
-

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**Marsh Inventory No.: 246 Information Rank (1-5): 3 State: TX**

**Date Planted:**

**Area Planted (1acre = 0.4047 ha): 0.004 hectares**

**COE Permit No.: 16564 Date of COE Permit:**

**Originator or Applicant for permit: J.M. Inhofe**

**Location of the marsh.**

**State: TX County: Cameron Latitude (N): (26 04' 30") Longitude (W): (97 10' 00")**

**Bay and sub-bays: Laguna Madre; Lower Laguna Madre**

**Directions to the site: W. end of Capricorn St., S. Padre Isl.**

**Source of planting information: Mr. Andreas Mager, Jr., NMFS SE Region Headquarters, Habitat Conservation Division, 9721 Executive Center Drive, St. Petersburg, FL 33702; (813) 893-3503.**

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

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**Marsh Inventory No.: 244 Information Rank (1-5): 3 State: TX**

**Date Planted:**

**Area Planted** (1acre = 0.4047 ha): 0.004 hectares

**COE Permit No.: 15883 Date of COE Permit:**

**Originator or Applicant for permit:** Settlement II (Laguna del Sol)

**Location of the marsh.**

**State:** TX **County:** Cameron **Latitude (N):** (26 04' 30") **Longitude (W):** (97 10' 00")

**Bay and sub-bays:** Laguna Madre; Lower Laguna Madre

**Directions to the site:** Laguna del Sol Condo's, W end of Venus and Jupiter Sts., S. Padre Isl.

**Source of planting information:** Mr. Andreas Mager, Jr., NMFS SE Region Headquarters, Habitat Conservation Division, 9721 Executive Center Drive, St. Petersburg, FL 33702; (813) 893-3503.

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

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**Marsh Inventory No.:** 243 **Information Rank (1-5):** 3 **State:** TX

**Date Planted:**

**Area Planted** (1acre = 0.4047 ha): 0.004 hectares

**COE Permit No.:** 15832 **Date of COE Permit:**

**Originator or Applicant for permit:** Settlement II (Laguna del Sol)

**Location of the marsh.**

**State:** TX **County:** Cameron **Latitude (N):** (26 04' 30") **Longitude (W):** (97 10' 00")

**Bay and sub-bays:** Laguna Madre; Lower Laguna Madre

**Directions to the site:** N. end of Laguna Circle North, S. Padre Isl.

**Source of planting information:** Mr. Andreas Mager, Jr., NMFS SE Region Headquarters, Habitat Conservation Division, 9721 Executive Center Drive, St. Petersburg, FL 33702; (813) 893-3503.

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

-  
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**Marsh Inventory No.: 242 Information Rank (1-5): 3 State: TX**

**Date Planted:**

**Area Planted (1acre = 0.4047 ha): 0.012 hectares**

**COE Permit No.: 15341 Date of COE Permit:**

**Originator or Applicant for permit: Starrett Construction Co.**

**Location of the marsh.**

**State: TX County: Cameron Latitude (N): (26 04' 30") Longitude (W): (97 10' 00")**

**Bay and sub-bays: Laguna Madre; Lower Laguna Madre**

**Directions to the site: W. end of Constellation Dr., S. Padre Isl.**

**Source of planting information: Mr. Andreas Mager, Jr., NMFS SE Region Headquarters, Habitat Conservation Division, 9721 Executive Center Drive, St. Petersburg, FL 33702; (813) 893-3503.**

**Source of subsequent assessment information:**

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

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**Marsh Inventory No.: 269 Information Rank (1-5): 4 State: TX**

**Date Planted: 1987**

**Area Planted (1acre = 0.4047 ha): 0.040 hectares**

**COE Permit No.: none Date of COE Permit:**

**Originator or Applicant for permit: Jackson Ranch**

**Location of the marsh.**

**State: TX County: Chambers Latitude (N): 29 34' 10" Longitude (W): 94 40' 00"**

**Bay and sub-bays: Galveston Bay**

**Directions to the site:** Lake Steveson, southwest corner. Lone Oak Bayou worked into Lake Stevenson.

**Source of planting information:** Mr. Eddie Seidensticker, U.S. Soil Conservation Service, 17324-A Hwy. 3, Webster, TX 77598, (713) 332-3381

**Source of subsequent assessment information:** Mr. Eddie Seidensticker, U.S. Soil Conservation Service, 17324-A Hwy. 3, Webster, TX 77598, (713) 332-3381

**References or reports:**

**Other species planted in addition to *Spartina alterniflora* :**

**Percent vegetative cover attained by the planted marsh:**

**Was there an assessment made of animal utilization of the marsh? If so, which animals were surveyed, and when?**

**General comments about the marsh:**

- 5% *S. alterniflora* shoot survival 5 years later; 60% shoots with seed. California bulrush (*Scirpus californica*) is out competing *S. alterniflora* Failure (0-15%).
- Seidensticker's Plot#3